

FIG. 1

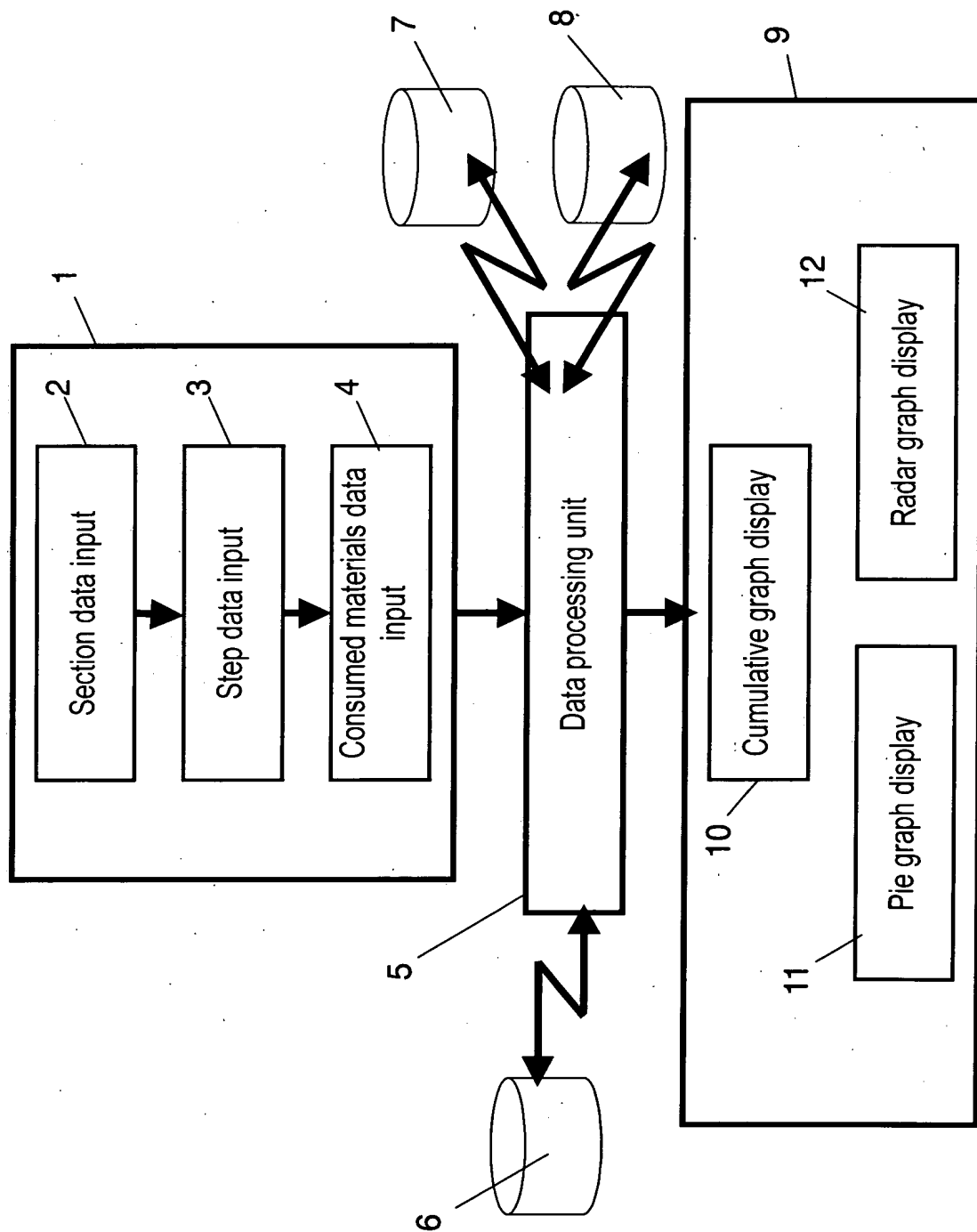




FIG. 3

<b>Step data</b>		19 23		20		21		22	
Step classifica- tion code		Step No.		Sup No	0			Step code	
Step name				Yield		Processing temperature	°C		
Step category			▼	Processing time		Products per one hour	unit		
Direct or Indirect	<input checked="" type="checkbox"/> Direct energy(for production equipment ) <input type="checkbox"/> Indirect energy(for light, air conditioning )								
				Section select		▼			

<b>Electric power data</b>		25		<b>Non-electric power data</b>				29	
Rated power	0	kW		Natural gas	0	m3/yr	Coal	0	kg/yr
Duty factor	1		26	Light oil	0	kg/yr	Wood	0	kg/yr
Ratio to full power	1		27	Heavy oil	0	kg/yr	Gasoline	0	kg/yr

28	Cogeneration use	<input checked="" type="radio"/> No <input type="radio"/> Yes
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Note

FIG. 4

Consumption material data

Step code  31

Material used  33

Consumption  kg/  35

Place  34

☒ Direct material (To remain in final product)

☐ Indirect material (Not to remain in final product)

☐ Material for process (Needed to keep process)

CO2 emission	1928 g/kg	CO emission	0.1114 g/1kg
NOX emission	6.214 g/kg	N2O emission	0.1831 g/1kg
SOX emission	2.182 g/kg	CxHy emission	0.1182 g/1kg
CH4 emission	g/kg	HF emission	1.94E-0.5 g/1kg
HCL emission	g/kg	Dust emission	0.3327 g/1kg
GWP20	g/kg	GWP100	
AP	g/kg	NP	

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30

AA001-00	L - Carrier loader	▲
AA002-00	Inspection	
AA003-00	L1-Casset L/D	
AA004-00	2-Dry cleaning	
AA005-00	3-1 Laser Marker	
AA006-00	U1-Casset I/L	
AA007-00	L2-Casset L/D	▼

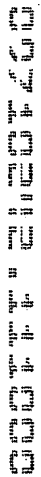
32

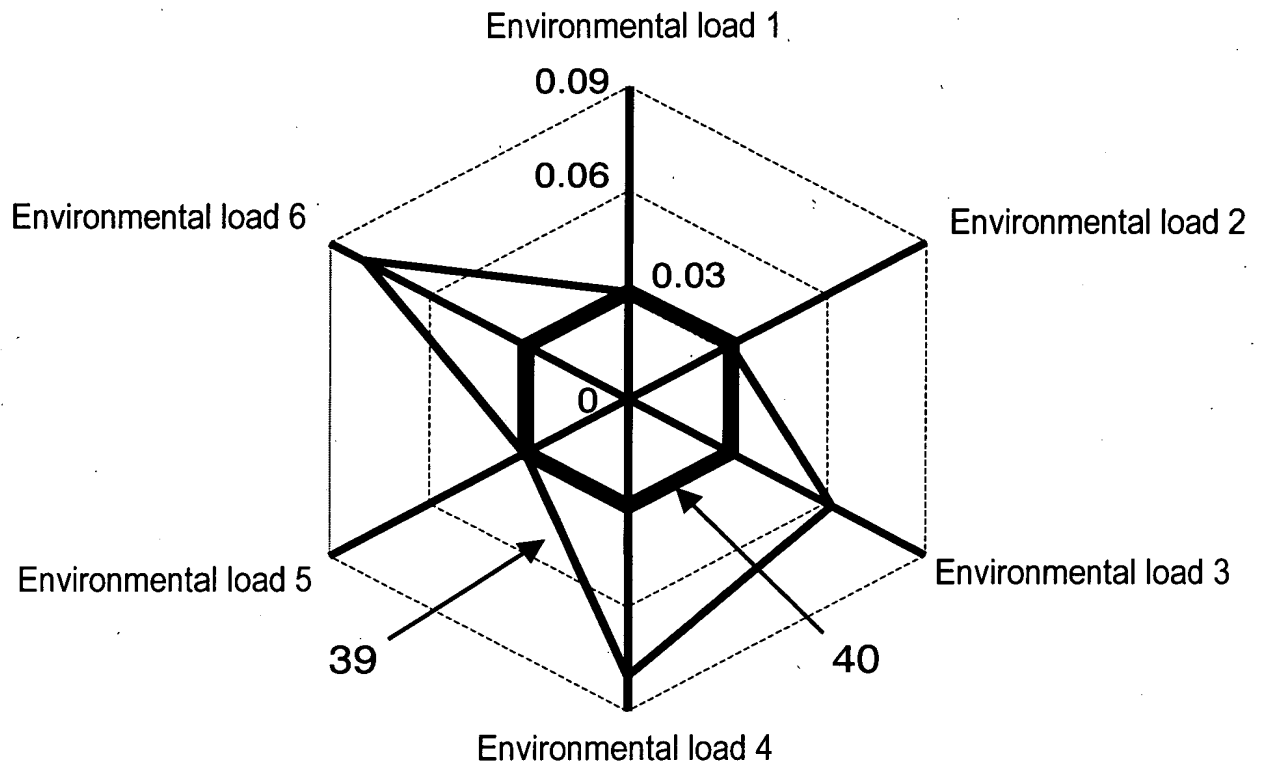
Polymer	Metal	Ceramics	Natural	Chemical	
ABS					▲
AN					
AS					
B/PET					
EP					
EPS					
Epoxy					▼

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Step code of manufacturing process



[illegible]

# FIG. 8

## 1) Emissions by electricity (per 1kWh)

Electric power Co.	Emissions		
	CO <sub>2</sub> (g/kWh)	SOx (g/kWh)	NOx (g/kWh)
A Co.	490	0.98	0.84
B Co.	570	0.60	0.63
C Co.	380	0.53	0.45
D Co.	480	0.50	0.38
E Co.	470	0.43	0.42
F Co.	330	0.31	0.32
G Co.	770	0.54	0.55
H Co.	370	0.83	0.46
I Co.	500	0.34	0.51
J Co.	1000	2.00	1.40

## 2) Emissions by natural gas (per 1Nm<sup>3</sup>)

	(g/Nm <sup>3</sup> )	(g/Nm <sup>3</sup> )	(g/Nm <sup>3</sup> )
	2290	1.29	2.34



FIG. 9

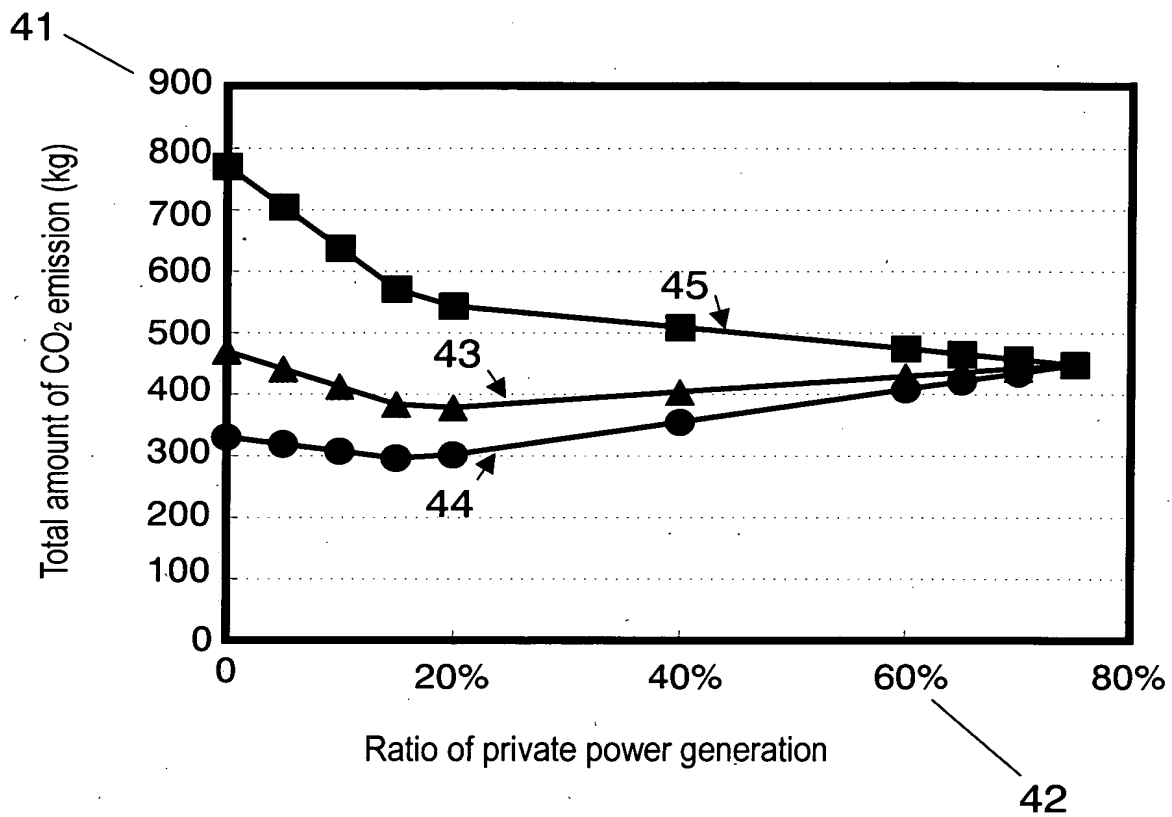


FIG. 10

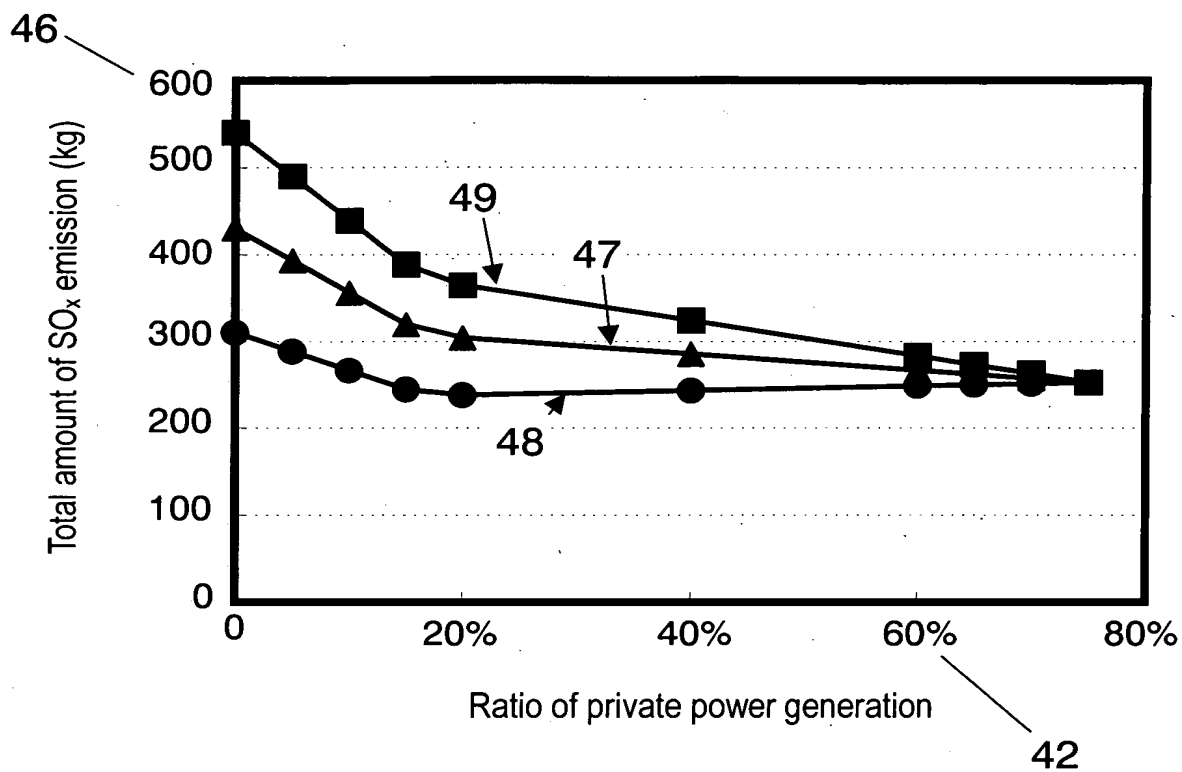


FIG. 11

